

Objectives

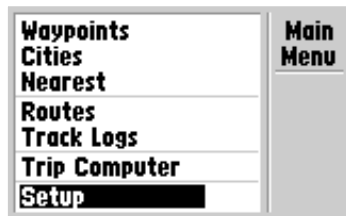
- Getting Connected
 - Opening DNR Garmin Outside of ArcView
- Download Waypoints
- Basic Waypoint Table Edits
- Save GPS Data as TEXT File
- Confirm File Naming Convention

Getting Connected - Step 1

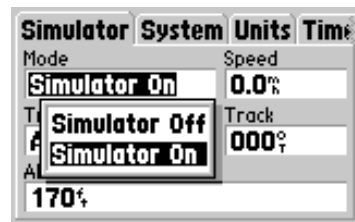
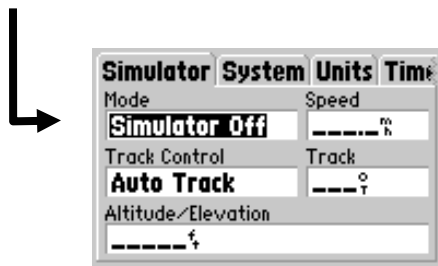
- Connect GPS unit to PC



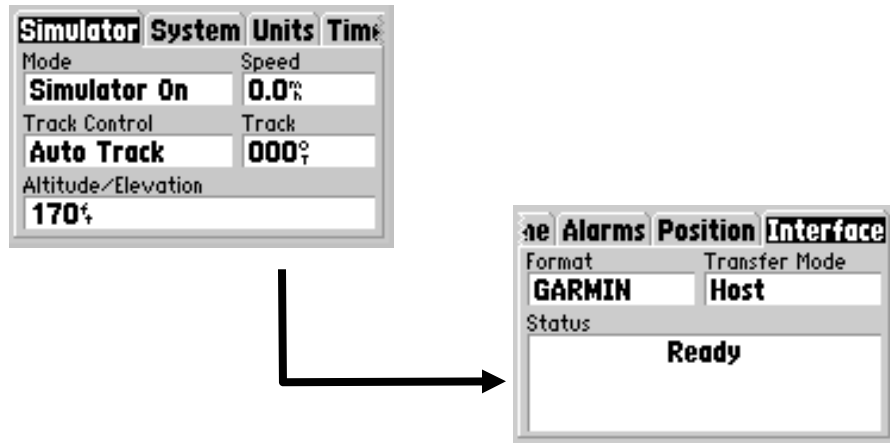
- Start Receiver
 - Push the ON button
 - Push the MENU button twice
 - Scroll down to SETUP
 - Push ENTER
 - Scroll left to the SIMULATOR tab



- Change Simulator Mode to On



- Check Interface Protocol
- Scroll up to Simulator Tab
- Scroll right to the INTERFACE tab

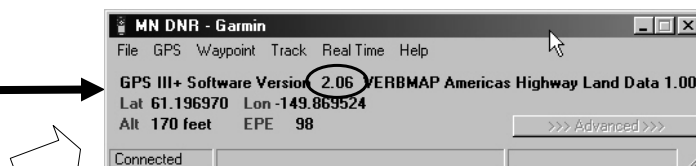


Getting Connected - Step 2

- Double-Click DNRGarmin shortcut on Desktop



VB Program



**Current GPS III+ Version
Recommended for Class**

Troubleshooting Tips

- Check the following if connection cannot be made

- Cables are securely attached
- Interface on receiver is set to Garmin



- VB Menu Option GPS

- These options set up communication protocols with GPS
 - Select GPS | Assign Port and Select other COM port*
 - Select GPS | Open Port to establish connection

* ActiveSync or other peripherals may be using same port

Download Waypoints to Text File

- Select Waypoint | Download
- Data is Lat/Long in Decimal Degrees
- Datum is WGS84*

* WGS84 is a result of setting Interface to Garmin and is the native language of GPS

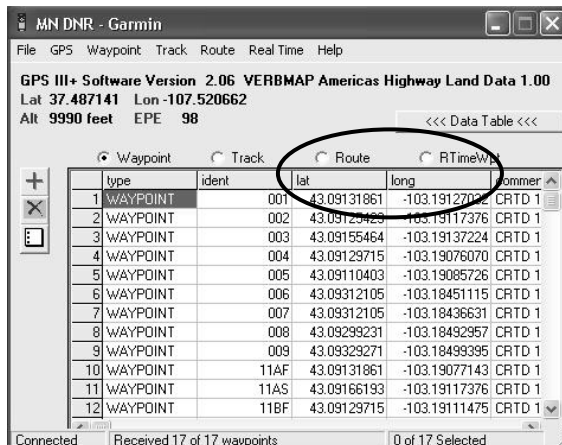


Table Edit Techniques

- Important Fields:
 - TYPE: Type of point this represents
 - IDENT: 6 characters defining name (defaulted here to Garmin's AutoNumber)
 - LAT/LONG: Latitude / Longitude in WGS84 Datum
 - COMMENT: 16 characters stored with Waypoint only



TIP "CRTD" in
Comment field
stands for Created

MN DNR - Garmin

File GPS Waypoint Track Route RealTime Help

GPS III+ Software Version 2.06 VERBMAP Americas Highway Land Data 1.00

Lat 37.487141 Lon -107.520662

Alt 9990 feet EPE 98

	type	ident	lat	long	comment
1	WAYPOINT	001	43.09131861	-103.19127032	CRTD 13:43:05
2	WAYPOINT	002	43.09125423	-103.19117376	CRTD 13:46:05
3	WAYPOINT	003	43.09155464	-103.19137224	CRTD 13:55:05
4	WAYPOINT	004	43.09129715	-103.19076070	CRTD 16:16:05
5	WAYPOINT	005	43.09110403	-103.19085726	CRTD 16:16:05

Table Edit Techniques

- Editing Table Information
 - Double-Clicking on Cell - Modifies Cell Value

BE CAREFUL!

30.43865204

- Deleting Records



- Deleting Columns

ident
001
002
003
004

	type	ident	lat	long	comment	dis
1	WAYPOINT	001	43.09131861	-103.19127032	CRTD 13:43:05	
2	WAYPOINT	002	43.09125423	-103.19117376	CRTD 13:46:05	
3	WAYPOINT	003	43.09155464	-103.19137224	CRTD 13:55:05	
4	WAYPOINT	004	43.09129715	-103.19076070	CRTD 16:16:05	

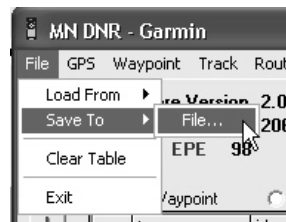
- To Select multiple columns or rows, hold down mouse and drag

Table Edit Techniques

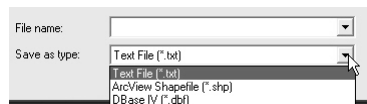
- Edit Restoration Fire Scenario Data
 - Delete 2nd Archeological Site (remove row two)
 - Highlight Row 2
 - Click  to delete selected row
 - Delete extraneous column data (optional)
 - Highlight column(s)
 - Click  to delete selected columns

Save Waypoints to Text File

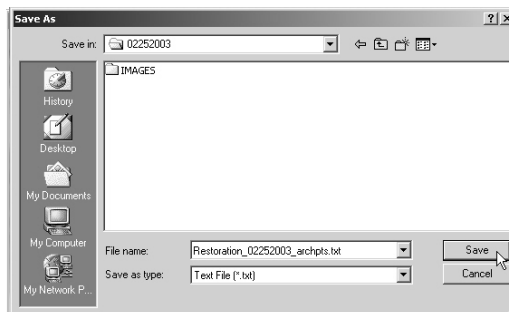
- Select File | Save To | File...



- Choose Text File output

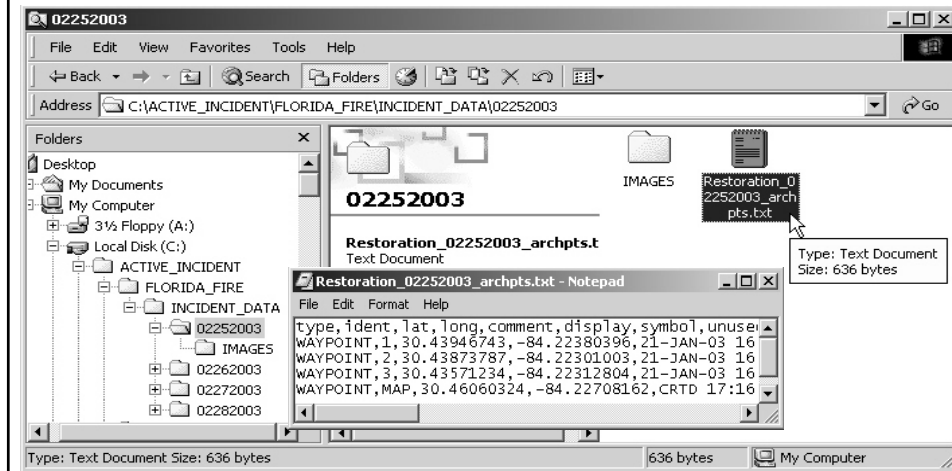


- Save As: See Instructor's Guidelines



Confirm Directory Structure

– Example shown here for the Restoration Fire at Tallahassee Florida Training, 2003



Review

DNR Garmin is two programs in one

- 1.) VB Program outside of ArcView
- 2.) ArcView 3.x extension

- VB Program can save .txt file, shapefile, or .dbf
 - Shapefile can be saved projected or unprojected
- ArcView extension can save as graphic or shapefile
 - has shapefile projection and datum change capabilities

Summary

- Connected successfully to the GPS
- Used DNR Garmin Program
 - Outside of ArcView
- Edited simple Waypoint Data
- Saved as Text File
- Confirmed location of file on PC